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ABSTRACT

Patterns of course distribution by subject areas and of courses taken by various majors are described in this report on Hawaii community colleges. Distribution of courses by educational objective indicate that certificate students take 70% of their work in vocational courses, Associate of Arts students take 68% in general education courses, Associate of Science students take 60% in vocational courses, and special and unclassified students take 69% in general education courses. Course-taking patterns by major have remained stable in the past five years and indicate that liberal arts majors continue to take the bulk of their work in general education courses (88%), vocational majors continue to take most of their work in vocational education courses (62%), though unclassified students take proportionately more Student Semester Hours (SSH) in general education (68%) and less in vocational education (32%) compared to last year. As in the past, liberal arts majors are the largest consumers of general education courses, generating 65% of all SSH's, with vocational majors and unclassified students generating 28% and 5% SSH respectively. Vocational students continue to generate the bulk of the vocational SSH's (80%), followed by liberal arts majors and unclassified students (15% and 4% respectively). Tables and graphs are appended. (Author/LH)

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THE ACADEMIC CROSSOVER REPORT
COMMUNITY COLLEGES
FALL 1977

JC 770 559

University of Hawaii
Office of the Chancellor for Community Colleges
Educational Services Division

CC-IRP 106

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THE ACADEMIC CROSSOVER REPORT
COMMUNITY COLLEGES
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The academic crossover report was developed in order to respond to questions considered basic to academic planning: what is the course-taking pattern of different groups of student majors? what groups of student majors do the various "departments" serve? i.e., what proportion of the liberal arts majors' (or vocational education majors') credit load is in the humanities? natural sciences? vocational education area? what proportion of the student semester hours (SSHs) generated in the humanities is taken by liberal arts majors? by business majors? etc.

Sources of Data

Computer reports 2524B, C, D based upon the student registrations as of October 15, 1977, were used as the primary sources of data. Included in this report are the student semester hours (SSHs) generated by early admits and concurrent students as well as regular credit students. For this reason, the total SSHs reflected in this report differ from those cited in CC-IRP 105: Selected Characteristics, Classified & Unclassified (Regular) Students, Fall 1977. (That report cites the SSHs of regular students only.)

Highlights

The data this fall do not differ greatly from those of previous fall semesters:

I. What is the course-taking pattern of students?

A. By educational objective (Table I):

1. Certificate students are taking 70% of their work in vocational courses; A.A. students, 88% in general education courses; A.S. students, 60% in vocational courses; and "other" students, (special and unclassified), 69% in general education.

2. Certificate and Associate in Science students are taking 86% and 70%, respectively, of their work in courses numbered below 100. Associate in Arts and "other" students are taking 77% and 58%, respectively, of their work in courses numbered above 100.

B. By majors (Table II and Figure 2):

The course-taking pattern, by students majors, have remained stable over the past five years:

1. Liberal arts majors continue to take the bulk of their work in general education courses (88%). (89% in previous semesters.)

2. Vocational majors continue to take most of their work in vocational education courses (62%). (61% in previous semesters.)

3. Unclassified students are taking proportionately more SSHs (68%) in general education and less in vocational education (32%) compared to Fall 1976 (62% and 38%, respectively). However, as shown in Figure 2, the proportions are similar to those shown for Fall 1973, 1974 and 1975.

II. What groups of student majors do the different "departments" serve? (Table II, Figure 1):

A. General Education Courses: As in the past years, liberal arts majors are the largest consumers of general education courses. Sixty-five percent of all SSHs generated are taken by liberal arts students (65% to 66% over the past years). Vocational majors and unclassified students are taking 28% and 5%, respectively, of the SSHs generated in general education.

B. Vocational Courses: Vocational students continue to generate the bulk of the vocational SSHs (80%) followed by liberal arts majors and unclassified students, (15% and 4%, respectively.)

III. Other observations:

A. As in the past years, the proportion of SSHs generated in the general education area is slightly less than two-thirds (63%). The range is from 45% at Hawaii Community College to 91% at Windward Community College. Almost a third of all SSHs generated (31%) is in the humanities.

B. As was true in previous semesters, over half (53%) of the SSHs were generated in courses numbered over 100. Seventy-seven percent of the SSHs of liberal arts students were in courses numbered over 100; 73% of the vocational students' courses were in courses numbered below 100.

C. As reported in Fall 1976:

1. About two-thirds (67,841 of 104,915) of all SSHs generated in courses numbered below 100 were in vocational education courses.

2. Slightly over four-fifths of the SSHs taken by early admits were in general education courses. The 1,406 SSHs attributed to early admits comprise 0.6% of total SSHs.

3. About three-fourths of the SSHs taken by concurrent registrants were in general education. (The comparative figure last fall was 56%.) Reflecting the decline in the number of concurrent registrants this fall, SSHs attributable to this group totaled 858 compared to 1,260 last fall.

Summary

Data from the crossover reports over the years show stable clients-served, course-taking patterns at the community colleges. What are the implications for academic planning? for projecting staffing needs?

REPORT 25248 TABLE I COMMUNITY COLLEGE SYSTEM

SEMESTER FALL 1977 ACADEMIC CROSSOVER STUDY DATE 10/17/77

CAMPUS COMMUNITY COLLEGE SYSTEM AS OF OCT 17, 1977

DISTRIBUTION OF SEMESTER HOURS TAKEN, BY EDUCATIONAL OBJECTIVE

MAJOR -- 001, GRAND TOTAL

TOTAL ENROLLMENT -- 21195 PCT OF TOTAL ENROLLMENT -- 100.00

TOTAL CAMPUS SEM HRS -- 221013 PCT OF TOTAL CAMPUS SEM HRS -- 100.00

	TOTAL	MALES	FEMALES	NO DATA
HEAD COUNT BY SEX	21195	11312	9863	20
HORIZONTAL PERCENTAGE	100.00	53.37	46.53	0.09

EDUCATIONAL OBJECTIVE / COURSE AREA	TOTAL STUDENTS 21195 HPCT 100.00 SEM HRS	VPCT	CERTIFICATE STUDENTS 1710 HPCT 8.07 SEM HRS	VPCT	SUBTOTAL AAGAS STUDENTS 17167 HPCT 81.00 SEM HRS	VPCT	ASSOC IN ARTS STUDENTS 9836 HPCT 46.41 SEM HRS	VPCT	ASSOC SCIENCE STUDENTS 7331 HPCT 34.59 SEM HRS	VPCT	OTHER & NO DATA STUDENTS 2318 HPCT 10.94 SEM HRS	VPCT
GRAND TOTAL	221013	100.00	18792	100.00	189000	100.00	104674	100.00	84326	100.00	13221	100.00
COURSE NO 000--099	104915	47.47	16201	86.21	83155	44.00	24162	23.08	58993	69.96	5559	42.05
COURSE NO 100--299	116098	52.53	2591	13.79	105845	56.00	80512	76.92	25333	30.04	7662	57.95
COURSE NO 100--199	88782	40.17	1938	10.31	81426	43.08	63268	60.44	18158	21.53	5418	40.98
COURSE NO 200--299	27316	12.36	653	3.47	24419	12.92	17244	16.47	7175	8.51	2244	16.97
GEN & PRE-PROF	140147	63.41	5550	29.53	125439	66.37	91976	87.87	33463	39.68	9158	69.27
COURSE NO 000--099	37074	16.77	3510	18.68	31408	16.62	15171	14.49	16237	19.26	2156	16.31
COURSE NO 100--299	103073	46.64	2040	10.86	94031	49.75	76805	73.38	17226	20.43	7002	52.96
COURSE NO 100--199	82114	37.15	1580	8.41	75476	39.93	61795	59.04	13681	16.22	5058	38.26
COURSE NO 200--299	20959	9.48	460	2.45	18555	9.82	15010	14.34	3545	4.20	1944	14.70
HUMANITIES	67959	30.75	2567	13.66	60532	32.03	45455	43.43	15077	17.88	4860	36.76
COURSE NO 000--099	16364	7.40	1515	8.06	13814	7.31	6934	6.62	6880	8.16	1035	7.83
COURSE NO 100--299	51595	23.34	1052	5.60	46718	24.72	38521	36.80	8197	9.72	3825	28.93
COURSE NO 100--199	41431	18.75	899	4.78	37886	20.05	31056	29.67	6830	8.10	2646	20.01
COURSE NO 200--299	10164	4.60	153	0.81	8832	4.67	7465	7.13	1367	1.62	1179	8.92
NATURAL SCIENCES	36292	16.42	1930	10.27	32327	17.10	22085	21.10	10242	12.15	2035	15.39
COURSE NO 000--099	17261	7.81	1705	9.07	14677	7.77	7308	6.98	7369	8.74	879	6.65
COURSE NO 100--299	19031	8.61	225	1.20	17650	9.34	14777	14.12	2873	3.41	1156	8.74
COURSE NO 100--199	15458	6.99	156	0.83	14378	7.61	12198	11.65	2180	2.59	924	6.99
COURSE NO 200--299	3573	1.62	69	0.37	3272	1.73	2579	2.46	693	0.82	232	1.75
SOCIAL SCIENCES	33370	15.10	957	5.09	30355	16.06	23104	22.07	7251	8.60	2058	15.57
COURSE NO 000--099	2616	1.18	228	1.21	2229	1.18	594	0.57	1635	1.94	159	1.20
COURSE NO 100--299	30754	13.92	729	3.88	28126	14.88	22510	21.50	5616	6.66	1899	14.36
COURSE NO 100--199	24315	11.00	504	2.68	22429	11.87	17927	17.13	4502	5.34	1382	10.45
COURSE NO 200--299	6439	2.91	225	1.20	5697	3.01	4583	4.38	1114	1.32	517	3.91
OTHER GENERAL EDUC	2526	1.14	96	0.51	2225	1.18	1332	1.27	893	1.06	205	1.55
COURSE NO 000--099	833	0.38	62	0.33	688	0.36	335	0.32	353	0.42	83	0.63
COURSE NO 100--299	1693	0.77	34	0.18	1537	0.81	997	0.95	540	0.64	122	0.92
COURSE NO 100--199	910	0.41	21	0.11	783	0.41	614	0.59	169	0.20	106	0.80
COURSE NO 200--299	783	0.35	13	0.07	754	0.40	383	0.37	371	0.44	16	0.12
VOCATIONAL EDUCATION	80866	36.59	13242	70.47	63561	33.63	12690	12.13	50863	60.32	4063	30.73
COURSE NO 000--099	67841	30.70	12691	67.53	51747	27.38	8991	8.59	42756	50.70	3403	25.74
COURSE NO 100--299	13025	5.89	551	2.93	11814	6.25	3707	3.54	8107	9.61	660	4.99
COURSE NO 100--199	6668	3.02	358	1.91	5950	3.15	1473	1.41	4477	5.31	360	2.72
COURSE NO 200--299	6357	2.88	193	1.03	5864	3.10	2234	2.13	3630	4.30	300	2.27
BUSINESS	36232	16.39	5289	28.14	28765	15.22	8184	7.82	20581	24.41	2178	16.47
COURSE NO 000--099	30697	13.89	5110	27.19	23715	12.55	5920	5.66	17795	21.10	1872	14.16
COURSE NO 100--299	5535	2.50	179	0.95	5050	2.67	2264	2.16	2786	3.30	306	2.31
COURSE NO 100--199	2846	1.29	112	0.60	2581	1.37	834	0.80	1747	2.07	153	1.16
COURSE NO 200--299	2689	1.22	67	0.36	2469	1.31	1430	1.37	1039	1.23	153	1.16
HOTEL & RESTAURANT	5293	2.39	1479	7.87	3581	1.89	460	0.44	3121	3.70	233	1.76
COURSE NO 000--099	5293	2.39	1479	7.87	3581	1.89	460	0.44	3121	3.70	233	1.76
HEALTH SERVICES	4231	1.91	1802	9.59	2132	1.13	247	0.24	1885	2.24	297	2.25
COURSE NO 000--099	2766	1.25	1758	9.36	759	0.40	181	0.17	578	0.69	249	1.88
COURSE NO 100--299	1465	0.66	44	0.23	1373	0.73	66	0.06	1307	1.55	48	0.36
COURSE NO 100--199	801	0.36	44	0.23	728	0.39	62	0.06	666	0.79	29	0.22
COURSE NO 200--299	664	0.30	0	0.00	645	0.34	4	0.00	641	0.76	19	0.14
PUBLIC SERVICES	8382	3.79	469	2.50	7451	3.94	1552	1.48	5899	7.00	462	3.49
COURSE NO 000--099	3296	1.49	358	1.91	2756	1.46	478	0.46	2278	2.70	182	1.38
COURSE NO 100--299	5086	2.30	111	0.59	4695	2.48	1074	1.03	3621	4.29	280	2.12
COURSE NO 100--199	2371	1.07	63	0.34	2148	1.14	396	0.38	1752	2.08	160	1.21
COURSE NO 200--299	2715	1.23	48	0.26	2547	1.35	678	0.65	1869	2.22	120	0.91
TECHNOLOGY	26466	11.97	4192	22.31	21452	11.35	2171	2.07	19281	22.86	822	6.22
COURSE NO 000--099	25548	11.56	3977	21.16	20773	10.99	1883	1.80	18890	22.40	798	6.04
COURSE NO 100--299	918	0.42	215	1.14	679	0.36	288	0.28	391	0.46	24	0.18
COURSE NO 100--199	650	0.29	139	0.74	493	0.26	181	0.17	312	0.37	18	0.14
COURSE NO 200--299	268	0.12	76	0.40	186	0.10	107	0.10	79	0.09	6	0.05
OTHER VOCATIONAL	262	0.12	11	0.06	180	0.10	84	0.08	96	0.11	71	0.54
COURSE NO 000--099	241	0.11	9	0.05	163	0.09	69	0.07	94	0.11	69	0.52
COURSE NO 100--299	21	0.01	2	0.01	17	0.01	15	0.01	2	0.00	2	0.02
COURSE NO 200--299	21	0.01	2	0.01	17	0.01	15	0.01	2	0.00	2	0.02

REPORT 2524D
SEMESTER FALL 1977
CAMPUS COMMUNITY COLLEGE SYSTEM

TABLE II

COMMUNITY COLLEGE SYSTEM
ACADEMIC CROSSOVER STUDY
AS OF OCT 17, 1977
DISTRIBUTION OF SEMESTER HOURS BY COURSE AREA BY MAJOR

DATE 10/17/77

COURSE AREA \ MAJOR	TOTAL STUDENTS 21195 SEM HRS	V%	H%	LIBERAL ARTS STUDENTS 9768 SEM HRS	V%	H%	SUBTOTAL VOCATIONAL STUDENTS 9109 SEM HRS	V%	H%	UNCLASSIFIED & AUDITORS STUDENTS 1837 SEM HRS	V%	H%	NO DATA STUDENTS 56 SEM HRS	V%	H%	SUBTOTAL SPECIAL STUDENTS 425 SEM HRS	V%	H%
GRAND TOTAL	221013	100	100	104045	100	47	103747	100	47	10434	100	5	523	100	0	2264	100	1
COURSE NO 000--099	104915	47	100	24014	23	23	75342	73	72	4631	44	4	256	49	0	672	30	1
COURSE NO 100--299	116098	53	100	80031	77	69	28405	27	24	5803	56	5	267	51	0	1592	70	1
COURSE NO 100--199	88782	40	100	62916	60	71	20448	20	23	4071	39	5	206	39	0	1141	50	1
COURSE NO 200--299	27316	12	100	17115	16	63	7957	8	29	1732	17	6	61	12	0	451	20	2
GEN & PRE-PROF	140147	63	100	91561	88	65	39428	38	28	7069	68	5	298	57	0	1791	79	1
HUMANITIES	67959	31	100	45228	43	67	17871	17	26	3820	37	6	129	25	0	911	40	1
NATURAL SCIENCES	36292	16	100	21984	21	61	12273	12	34	1521	15	4	82	16	0	432	19	1
SOCIAL SCIENCES	33370	15	100	23017	22	69	8295	8	25	1542	15	5	75	14	0	441	19	1
OTHER GENERAL EDUC	2526	1	100	1332	1	53	989	1	39	186	2	7	12	2	0	7	0	0
VOCATIONAL EDUCATION	80866	37	100	12484	12	15	64319	62	80	3365	32	4	225	43	0	473	21	1
BUSINESS	36232	16	100	8139	8	22	25915	25	72	1887	18	5	34	7	0	257	11	1
HOTEL & RESTAURANT	5293	2	100	460	0	9	4600	4	87	134	1	3	85	16	2	14	1	0
HEALTH SERVICES	4231	2	100	246	0	6	3688	4	87	272	3	6	25	5	1	0	0	0
PUBLIC SERVICES	8382	4	100	1441	1	17	6479	6	77	372	4	4	18	3	0	72	3	1
TECHNOLOGY	26466	12	100	2114	2	8	23530	23	89	680	7	3	62	12	0	80	4	0
OTHER VOCATIONAL	262	0	100	84	0	32	107	0	41	20	0	8	1	0	0	50	2	19
NO DATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REPORT 2S240
SEMESTER FALL 1977
CAMPUS COMMUNITY COLLEGE SYSTEM

TABLE II (CONT.)

COMMUNITY COLLEGE SYSTEM
ACADEMIC CROSSOVER STUDY
AS OF OCT 17, 1977
DISTRIBUTION OF SEMESTER HOURS BY COURSE AREA BY MAJOR

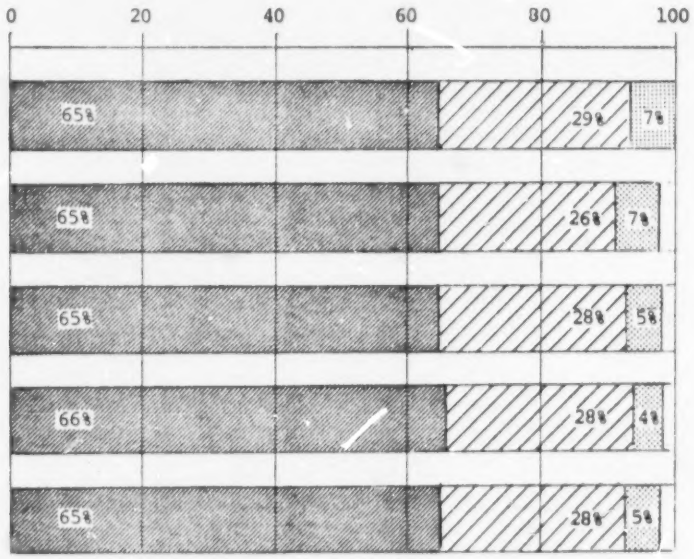
DATE 10/17/77

COURSE AREA \ MAJOR	BUSINESS 3670			HEALTH SERVICE 368			HOTEL/RES 533			PUBLIC SERVICE 1260			TECHNOLOGY 3258			EARLY ADMIT 223			CONCURRENT REG 202		
	SEM HRS	V%	H%	SEM HRS	V%	H%	SEM HRS	V%	H%	SEM HRS	V%	H%	SEM HRS	V%	H%	SEM HRS	V%	H%	SEM HRS	V%	H%
GRAND TOTAL	39999	100	18	4720	100	2	6075	100	3	12649	100	6	40304	100	18	1406	100	1	858	100	0
COURSE NO 000--099	29218	73	28	2620	56	2	5358	88	5	4741	37	5	33405	83	32	497	35	0	175	20	0
COURSE NO 100--299	10781	27	9	2100	44	2	717	12	1	7908	63	7	6899	17	6	909	65	1	683	80	1
COURSE NO 100--199	8207	21	9	1317	28	1	613	10	1	4916	39	6	5395	13	6	750	53	1	391	46	0
COURSE NO 200--299	2574	6	9	783	17	3	104	2	0	2992	24	11	1504	4	6	750	53	1	391	46	0
GEN & PRE-PROF	13779	34	10	1281	27	1	1517	25	1	6780	54	5	16071	40	11	1156	82	1	635	74	0
HUMANITIES	7662	19	11	359	8	1	800	13	1	2780	22	4	6270	16	9	577	41	1	334	39	0
NATURAL SCIENCES	2695	7	7	692	15	2	456	8	1	1517	12	4	6913	17	19	296	21	1	136	16	0
SOCIAL SCIENCES	3276	8	10	216	5	1	240	4	1	2043	16	6	2520	6	8	276	20	1	165	19	0
OTHER GENERAL EDUC	146	0	6	14	0	1	21	0	1	440	3	17	368	1	15	7	0	0	0	0	0
VOCATIONAL EDUCATION	26220	66	32	3439	73	4	4558	75	6	5869	46	7	24233	60	30	250	18	0	223	26	0
BUSINESS	24794	62	68	120	3	0	249	4	1	201	2	1	551	1	2	139	10	0	118	14	0
HOTEL & RESTAURANT	406	1	8	16	0	0	4134	68	78	0	0	0	44	0	1	14	1	0	0	0	0
HEALTH SERVICES	36	0	1	3303	70	78	135	2	3	66	1	2	148	0	3	0	0	0	0	0	0
PUBLIC SERVICES	801	2	10	0	0	0	15	0	0	5397	43	64	266	1	3	6	0	0	66	8	1
TECHNOLOGY	174	0	1	0	0	0	21	0	0	124	1	0	23211	58	88	41	3	0	39	5	0
OTHER VOCATIONAL	9	0	3	0	0	0	4	0	2	81	1	31	13	0	5	50	4	19	0	0	0
NO DATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FIGURE 1
DISTRIBUTION OF SSH BY COURSE AREA AND MAJORS
Community Colleges
Fall 1973, 1974, 1975, 1976 & 1977

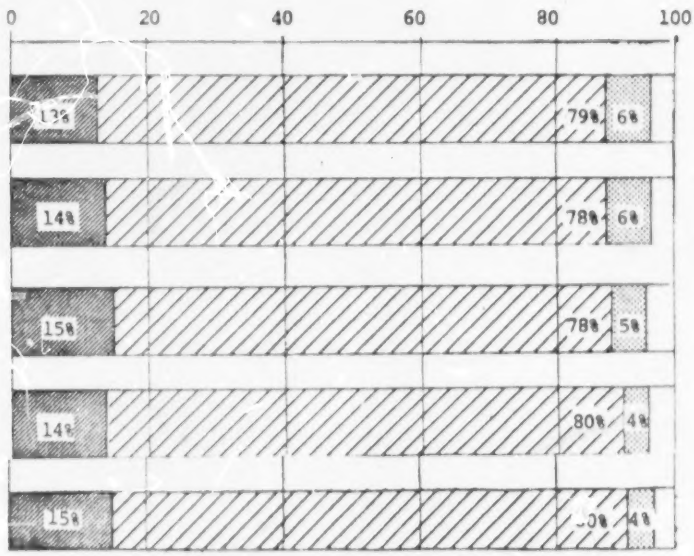
GENERAL EDUCATION COURSES:

What were the proportions taken by different majors?



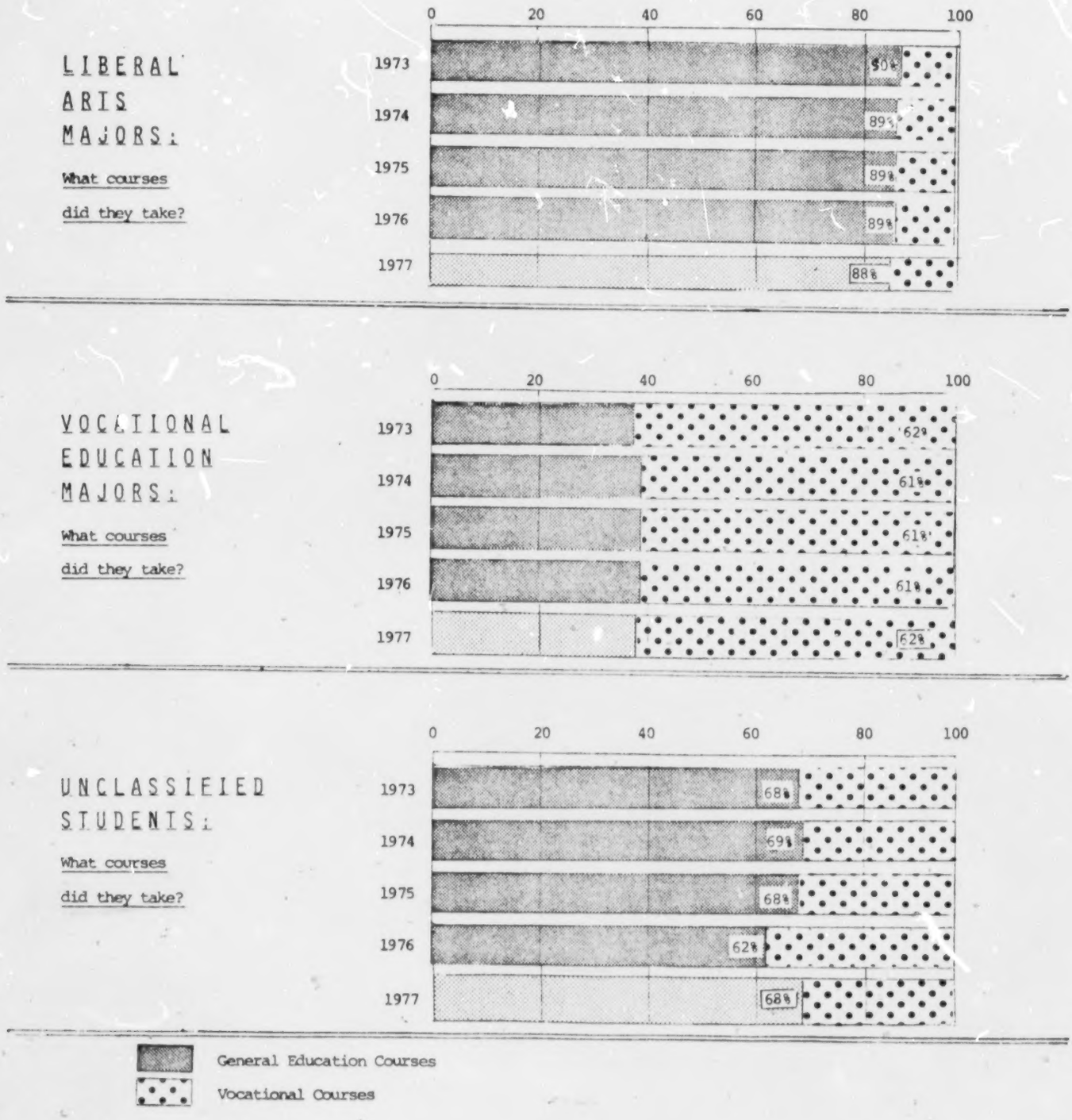
VOCATIONAL EDUCATION COURSES:

What were the proportions taken by different majors?



Liberal Arts Majors
Vocational
Unclassified
Others: Includes special students and students for whom data on educational objectives were missing.

FIGURE 2
DISTRIBUTION OF SSH BY STUDENT MAJORS AND THEIR WORKLOAD
COMMUNITY COLLEGES
Fall 1973, 1974, 1975, 1976 & 1977



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APPENDIX A
FALL 1977 CROSSOVER MAJOR GROUPINGS
COMMUNITY COLLEGES

Major Group	Majors Included
General & Pre-Prof (Liberal Arts)	General & Pre-Prof
Business Education	
Accounting	Accounting
Computer Science	Information & Computer Science Data Processing Data Processing Operations
Sales & Management	Merchandising Mid-Management Hotel Operations Mid-Management Management
Secretarial & Related	Business Operations Clerical, Bookkeeping Clerical, General Clerical, Stenography Clerical, Typist General Business General Office Training Secretarial Science
Health Services	
Associate Degree Nursing	Associate Degree Nursing
Dental Assisting	Dental Assisting
Dietetic Technology	Dietetic Technology
Medical Assisting	Medical Assisting
Medical Lab Technology	Medical Lab Technology
Medical Records Technology	Medical Records Technology
Nursing	Practical Nursing
Occupational Therapy Assistant	Occupational Therapy Assistant
Radiologic Technology	Radiologic Technology
Respiratory Therapy	Respiratory Therapy
Hotel & Food Services	
Commercial Baking	Commercial Baking
Food Service	Food Service Restaurant/Food Service
Food Service, Culinary Arts	Food Service, Culinary Arts

Major Group	Majors Included
Hotel & Food Services (Cont.)	
Food Service, Dining Room	Food Service, Dining Room
Food Service Management	Food Service Management
Public Service	
Fire Science	Fire Science
Human Services	Human Services
Industrial Education	Industrial Education
Legal Assistant	Legal Assistant
Library Technology	Library Technology
Occupational Safety & Health	Occupational Safety & Health
Police Science	Police Science
Recreational Instructor Prog.	Recreational Instructor Program
Technology	
Aeronautics Technology	Aviation Maintenance Technology
Agriculture	Agriculture
Apparel Design & Construction	Fashion Design/Merchandising Apparel Design & Construction; Apparel Trades
Applied Trades	Applied Trades
Automotive Technology	Auto Body Repair & Painting Auto Mechanics Technology
Building, Construction Tech.	Carpentry Electricity Industrial Electricity
Commercial Art	Commercial Arts; Graphic Arts
Cosmetology	Cosmetology
Diesel Mechanics Technology	Diesel Mechanics Heavy Equipment Maintenance & Repair
Drafting Technology	Architectural Drafting Technology Drafting Technology Drafting & Engineering Aide
Electronics Technology	Electronics Technology
Engineering Technology	Engineering Technology

Major Group	Majors Included
Technology (Cont.)	
Maintenance Technology	Building Maintenance
Marine Technology	Marine Technology
Metalworking Trades Technology	Machine Shop Technology Welding & Sheet Metal Sheet Metal & Plastics Welding Technology Sheet Metal Technology
Refrigeration & Air Conditioning	Refrigeration & Air Conditioning
Unclassified & Auditor	
Unclassified Day Student	Unclassified
Unclassified Evening Student	Evening
Special Students	
Early Admissions	Early Admissions
Concurrent Registrants	Concurrent
Other Special Students	Other Special Students
No Data Majors	

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